

TRUCKEE RIVER BASIN, TRUCKEE RIVER BASIN

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA
(Hydrologic Benchmark Station)

LOCATION.—Lat 39°25'54", long 120°14'13", in NE ¼ NE ¼ sec.7, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on left bank, 2.2 mi upstream from bridge on State Highway 89, and 7.5 mi north of Truckee.

DRAINAGE AREA.—10.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1953 to current year.

PRECIPITATION DATA: Water years 1991–96.

REVISED RECORDS.—WDR CA-79-3: Drainage area.

GAGE.—Water-stage recorder and concrete control. Elevation of gage is 6,320 ft above NGVD of 1929, from topographic map. Prior to Dec. 2, 1953, nonrecording gage at site 100 ft upstream at different datum.

REMARKS.—Records good. No storage or diversion upstream from station. [See schematic diagram of Truckee River Basin, Lake Tahoe and Truckee River Basin.](#)

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,230 ft³/s, Jan. 1, 1997, gage height, 5.20 ft, from poor high-water mark on gage house, rating curve extended above 160 ft³/s, on basis of slope-area measurement at gage height 4.28 ft; minimum daily, 1.0 ft³/s, Sept. 13, 1960.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 50 ft³/s, or maximum:

Date	Discharge Time	Gage height (ft ³ /s)	(ft)
Apr. 5	1715	35	2.44

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.0	2.5	e3.0	2.9	3.6	19	21	8.5	3.4	1.7	1.5
2	1.8	2.0	2.7	e3.0	2.9	3.6	18	22	8.2	3.3	1.7	1.5
3	2.0	2.0	2.5	3.0	2.9	3.5	21	23	7.8	3.1	1.7	1.6
4	1.9	2.1	2.4	e3.0	2.9	3.5	25	24	7.3	2.9	1.7	1.6
5	1.8	2.1	3.7	3.0	e3.0	3.5	27	24	6.9	2.7	1.7	1.6
6	1.8	2.1	14	2.9	2.9	3.9	27	23	6.8	2.6	1.7	1.6
7	1.8	2.2	11	2.9	2.9	4.4	26	21	6.6	2.6	1.7	1.5
8	1.8	2.3	4.3	3.4	e3.0	5.1	27	19	6.3	2.5	1.6	1.5
9	1.8	2.5	3.4	3.6	2.9	6.0	28	18	6.5	2.5	1.6	1.5
10	1.7	2.3	3.2	3.5	2.9	6.8	27	18	6.2	2.4	1.6	1.5
11	1.8	2.2	3.0	3.5	2.8	7.1	27	19	5.8	2.4	1.6	1.5
12	1.8	2.2	2.9	3.5	2.8	7.5	28	16	5.4	2.3	1.6	1.5
13	1.8	2.3	3.0	3.5	2.8	8.0	28	15	5.1	2.3	1.6	1.5
14	1.8	2.3	3.1	3.4	2.7	9.0	25	14	5.0	2.2	1.6	1.6
15	1.8	2.4	2.9	3.3	2.7	10	23	13	4.8	2.2	1.6	1.6
16	1.8	2.3	2.8	3.2	7.8	11	20	13	4.8	2.2	1.7	1.6
17	1.8	2.3	2.7	3.1	14	12	18	12	4.6	2.1	1.6	1.6
18	1.8	2.3	2.7	3.1	8.3	13	17	11	4.5	2.1	1.6	1.6
19	1.8	2.4	2.7	3.1	6.1	15	15	11	4.3	2.1	1.6	1.6
20	1.8	2.5	3.3	3.1	5.2	17	17	11	4.1	2.1	1.6	1.9
21	1.8	2.4	3.3	3.0	4.7	19	16	10	4.0	2.0	1.6	1.8
22	1.8	2.2	3.0	e3.0	4.4	21	16	10	3.8	1.9	1.6	1.8
23	1.8	2.1	3.0	e3.0	4.2	22	16	9.8	3.7	1.8	1.6	1.7
24	1.8	2.1	e3.8	3.0	4.1	21	18	9.2	3.5	1.8	1.6	1.7
25	1.8	2.1	e3.7	3.0	4.5	18	19	8.9	3.4	1.8	1.6	1.6
26	1.8	2.1	3.6	e3.0	4.5	15	22	8.6	3.3	1.8	1.6	1.6
27	1.8	2.1	3.5	3.0	4.0	13	25	9.1	3.3	1.8	1.6	1.6
28	1.8	2.2	3.4	2.9	3.8	14	25	13	3.3	1.8	1.6	1.6
29	1.8	2.4	3.3	2.9	3.7	17	22	10	3.3	1.7	1.6	1.7
30	1.9	2.5	e3.3	2.9	---	21	21	9.2	3.3	1.7	1.6	1.7
31	2.0	---	3.0	2.9	---	22	---	8.8	---	1.7	1.5	---
TOTAL	56.2	67.0	115.7	96.7	122.3	356.5	663	454.6	154.4	69.8	50.3	48.2
MEAN	1.81	2.23	3.73	3.12	4.22	11.5	22.1	14.7	5.15	2.25	1.62	1.61
MAX	2.0	2.5	14	3.6	14	22	28	24	8.5	3.4	1.7	1.9
MIN	1.7	2.0	2.4	2.9	2.7	3.5	15	8.6	3.3	1.7	1.5	1.5
AC-FT	111	133	229	192	243	707	1320	902	306	138	100	96

e Estimated.

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.38	4.98	6.97	8.36	8.00	10.7	24.3	42.7	24.7	7.04	3.08	2.69
MAX	11.9	27.7	44.0	87.3	51.0	50.1	51.6	117	142	37.4	11.8	7.56
(WY)	1963	1984	1965	1997	1963	1986	1986	1969	1983	1983	1983	1983
MIN	1.46	1.83	2.03	1.81	2.54	2.74	6.13	3.45	1.82	1.36	1.20	1.11
(WY)	1995	1993	1977	1962	1994	1962	1975	1988	1992	1994	1994	1960

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	3171.8		2254.7			
ANNUAL MEAN	8.69		6.16		12.2	
HIGHEST ANNUAL MEAN					30.0 1983	
LOWEST ANNUAL MEAN					2.65 1977	
HIGHEST DAILY MEAN	54	May 24	28	Apr 9	800	Jan 1 1997
LOWEST DAILY MEAN	1.7	Sep 23	1.5	Aug 31	1.0	Sep 13 1960
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 23	1.5	Sep 7	1.1	Sep 9 1960
MAXIMUM PEAK FLOW			35		1230 Jan 1 1997	
MAXIMUM PEAK STAGE			2.44		5.20 Jan 1 1997	
ANNUAL RUNOFF (AC-FT)	6290		4470		8870	
10 PERCENT EXCEEDS	21		18		32	
50 PERCENT EXCEEDS	3.7		3.0		4.4	
90 PERCENT EXCEEDS	1.8		1.6		1.9	